anyone who needs detailed knowledge of these functions for problems in physics and technology. (The algebraic aspects, e.g. the transcendental solution of the generic equation of fifth degree in terms of Theta functions seem to have been excluded entirely.) However, there is one more aspect of the book which should be mentioned since it may appeal to a large number of mathematicians of all professional denominations. The behavior of several functions, in particular of Weierstrass' $\wp$-function in the complex domain is illustrated by numerous magnificent drawings. Of these, the figures on pp. 168, 169, 175, 177 and 199 deserve special mention.

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40[P, T, V].—JERRY DEAN PEARSON & ROBERT C. FELLINGER, *Thermodynamic Properties of Combustion Gases*, The Iowa State University Press, Ames, Iowa, 1965, xv + 213 pp., 24 cm. Price $7.50.

The book is a collection of tables of the equilibrium thermodynamic properties of the products of combustion of a hydrocarbon fuel at high temperatures. The fuel must be of the type $C_K H_{2K}$ where K is any integer.

The tables give the enthalpy, entropy, molecular weight, specific heat ratio, and sonic velocity of the combusion products as a function of the total pressure and temperature of the gas mixture in various percentages for stoichiometric oxygen. The pressures range from .01 to 25 atmospheres and temperatures from 1500°K to 3500°K.

The book should be of use primarily to mechanical or aeronautical engineers interested in combustion problems.

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41[P, W, X, Z].—LÁSZLÓ KALMÁR, Editor, *Colloque Sur les Fondements des Mathématiques, les Machines Mathématiques, et Leurs Applications*, Gauthier-Villars, Paris, 1965, 317 pp., 24 cm. Price $8.00.

This volume contains a selection from the lectures presented at the Colloquium "Foundations of Mathematics, Mathematical Machines and Their Applications", held at Tihany, Hungary, September 11–15, 1962. The papers presented are grouped into seven categories:

1. Foundations of Mathematics and Mathematical Logic. This section contains papers by the following authors: J. Bečvář, A. Church, H. B. Curry, Gy. Graetzer, K. Haertig, H. Hermes, M. Makkai, G. H. Mueller, H. Rasiowa, E.-J. Thiele, V. Vučkovič, S. Watanabe.

2. Abstract Theory of Automata and Computers. Papers by: T. Frey, M. A. Gavrilov, L. Kalmár, R. Péter.

3. Circuit Theory. Papers by: A. Ádám, Ya. Barat, M. Coroi-Nedelcou, I. Fenyoe, H. Rohleder.